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## SEQUENCE LISTING

&lt;110&gt; Guido Christiaan Paesen, Patricia Anne Nuttall

5 &lt;120&gt; Tissue Cement

&lt;130&gt; 2488-1-001

&lt;140&gt; 09/554,547

10 &lt;141&gt; 2000-5-12

&lt;160&gt; 17

&lt;170&gt; PatentIn Ver. 2.1

15

&lt;210&gt; 1

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; R. appendiculatus

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&lt;400&gt; 1

Met Lys Ala Phe Val Ala Val Ala Leu Leu Ser Ala Val Ser Val Ala  
1 5 10 15

25 His Ala Ala Leu Lys Thr Asp Val Ala Ser Gly Pro Ala Gly Ser Gly  
20 25 30

Ala Leu Ser Leu Gly Val Gly Gly Phe Pro Ser Gly Ala Ser Leu Gly  
35 40 45

30

Ser Leu Ser Gly Val Thr Leu Ser Gly Ala Gly Ser Ser Val Ser Gly  
50 55 60

35 Arg Pro Gly Ser Pro Gly Ser Ala Gly Pro Ser Ser Gly Pro Ala Val  
65 70 75 80

Ser

40

&lt;210&gt; 2

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; R. appendiculatus

45

&lt;400&gt; 2

aaaccaaggc aggacacagc agccatgaag gccttcgttg cagtcgccct tttgtctgca 60  
gtttccgtgg cacatgctgc cctcaagact gacgtagcca gtggacctgc cggttctggt 120  
gcactaagtc taggagttgg aggccttcccg tccggtgctt cgcttggcag ccttagtggtc 180  
50 gtaaccctct ctggtgctgg ctcttccgtg tctggccgcc ctggatcccc tggatcggtc 240  
ggtcctagct ctggaccgcg agtgctg 267

&lt;210&gt; 3

&lt;211&gt; 90

55

&lt;212&gt; PRT

&lt;213&gt; R. appendiculatus

&lt;400&gt; 3

60 Asp Arg His Glu Val Lys Gly Ala Leu Leu Gln Gln Gln Gln Ala Ser  
1 5 10 15

Gln Val Lys Gly Ala Leu Lys Gly Ala Ile Lys Gly Gly Leu Leu Gln  
20 25 30

Gln Gln Ala Gln Ser Gln Val Gln Gly Ala Leu Lys Gly Ala Val Lys  
5 35 40 45

Gly Ala Leu Leu Gln Gln Gln Ala Ser Gln Val Lys Gly Ala Leu  
50 55 60

10 Lys Gly Ala Ile Lys Val Cys Leu Leu His Gln Gln Ala Gln Ser Gln  
65 70 75 80

Ser Gln Val Gln Gly Ala Leu Lys Gly Ala  
85 90

15

<210> 4  
<211> 731  
<212> DNA  
20 <213> R. appendiculatus

<400> 4  
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gatccataac aatggccagt catgtgtaga tgcagccccc actcgacgtc ctatgccatc 120  
25 tctcctgga tgtgctggtc ctggctgttt tactgggtatt gctactcttc taagacctgg 180  
tcaaggacag caacctggtc aaggacagca acctgggtcaa gggcgctcctc caatgccacg 240  
tccaggacct gttccaggaa catctggatc acctcaagga agacccaatg gagcacctcg 300  
tccaggacct gttcctggaa catctggatc acctcaagga agacctaacg caagacctcg 360  
tccaggacct gttcctggaa caccaactgt atcctctccc ggatcatctc ctgggtcatc 420  
30 tccaggaata tctctaggaa cgcctctagg aacacctcta ggaacacctc aaggatcacc 480  
ttttggatca tctcttggat catcgatagg atcacctcct gcaacatctc ctggatcatc 540  
ttctccgtca cctcctggat cagcgaatgt gaacctgctg ggtcctcgac caattcgcg 600  
tcttgaagg cattgacggg accagtctcg ctgtgtattc ctccgtgcac aatgagggaa 660  
ggcattgatg ggaccagttc tgctgtgtat ttctccgtgc acagtgaggg aatctatcaa 720  
35 tagtgaata a 731

<210> 5  
<211> 730  
<212> DNA  
40 <213> R. appendiculatus

<400> 5  
cggacgcaca ctctcgagg aaggtcatct agttccgcca acatgaagct gctctgtgca 60  
ctagccctcg ttgcccttgg acttccattc ggcagcgctt accttggtgg cttcggcggc 120  
45 ctcggtggtt ggggtggcgg tctcgttgcc atctttggcc caggagctta tcccggtttc 180  
tatggcctta acagcgtgca cctcttgggc ggcaggttcc accatctctt cgggcgattc 240  
ccgccaccac ccggtatttg agctgctgaa gcgcagggga acctaaagccc ataccctctt 300  
gacatcaaca ccgtccaaga cccgaactgg ccaccccatg gtacgcgttg tctacggcgg 360  
agtcttgctg gagcgcctct gacctgacc agtcccaatt ccacaggatg tgctgtccc 420  
50 agtccccatt ccagtgcctc agccataccc agtccacac ccacgacaag ttccataccc 480  
agtgcctagt ccctaccccg tcccaatcca cagtaacacc gaagttcaca agaccgacgt 540  
cgtcgccgct actccaggag gaccagtccg gctcggagtc ggtgtcaccg gtgtcaggcc 600  
aggcgaacca agggctcgtg cctaagcttg atccaataga aagtcataac aatttagtca 660  
gtgagctcca cgtaaattat gcattacaaa taaagaaaag tttgtctggc agtaaaaaaa 720  
55 aaaaaaaaaa 730

<210> 6  
<211> 203  
<212> PRT  
60 <213> R. appendiculatus

&lt;400&gt; 6

Glu Val Ala Ser Ile Arg Thr Gly Val Phe Leu Ala Ala Phe Ala Phe  
 1 5 10 15

5 Leu Leu Ser Ala Ile His Asn Asn Gly Gln Ser Cys Val Asp Ala Ala  
 20 25 30

Pro Thr Arg Arg Pro Met Pro Ser Pro Pro Gly Cys Ala Gly Pro Gly  
 35 40 45

10 Cys Phe Thr Gly Ile Ala Thr Leu Leu Arg Pro Gly Gln Gly Gln Gln  
 50 55 60

15 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Arg Pro Pro Met Pro Arg  
 65 70 75 80

Pro Gly Pro Val Pro Gly Thr Ser Gly Ser Pro Gln Gly Arg Pro Asn  
 85 90 95

20 Gly Ala Pro Arg Pro Gly Pro Val Pro Gly Thr Ser Gly Ser Pro Gln  
 100 105 110

Gly Arg Pro Asn Ala Arg Pro Arg Pro Gly Pro Val Pro Gly Thr Pro  
 115 120 125

25 Thr Val Ser Ser Pro Gly Ser Ser Pro Gly Ser Ser Pro Gly Ile Ser  
 130 135 140

30 Leu Gly Thr Pro Leu Gly Thr Pro Leu Gly Thr Pro Gln Gly Ser Pro  
 145 150 155 160

Phe Gly Ser Ser Leu Gly Ser Ser Ile Gly Ser Pro Pro Ala Thr Ser  
 165 170 175

35 Pro Gly Ser Ser Ser Pro Ser Pro Pro Gly Ser Ala Asn Val Asn Leu  
 180 185 190

Leu Gly Pro Arg Pro Ile Arg Gly Pro Gly Arg  
 195 200

40

&lt;210&gt; 7

&lt;211&gt; 199

&lt;212&gt; DNA

45 <213> R. appendiculatus

&lt;400&gt; 7

acggactagg ttctgctggc gtccctctta ttggcggata cggctacggt cctttcgtag 60  
 gagccttcgc gtacggcttg tggggtggcc tcggtggcta tggctaccct gccttcggac 120  
 50 tctcctgggt tccacatggt ttggaggct ttggagcttc tccgtctgct gctgggttcc 180  
 gctcgttttg gagcctctt 199

&lt;210&gt; 8

&lt;211&gt; 54

55 <212> PRT

&lt;213&gt; R. appendiculatus

&lt;400&gt; 8

60 Gly Leu Gly Phe Ala Gly Val Pro Leu Ile Gly Gly Tyr Gly Tyr Gly  
 1 5 10 15

Pro Phe Val Gly Ala Phe Ala Tyr Gly Leu Trp Gly Gly Leu Gly Gly  
                   20                  25                  30  
 5 Tyr Gly Tyr Pro Ala Phe Gly Leu Ser Trp Val Pro His Gly Phe Gly  
                   35                  40                  45  
 Gly Phe Gly Ala Ser Pro  
           50  
 10  
     <210> 9  
     <211> 50  
     <212> PRT  
     <213> P. californica  
 15  
     <400> 9  
 Gly Tyr Gly Tyr Gly Ala Lys Lys Val Gly Gly Tyr Gly Tyr Gly Ala  
       1                  5                  10                  15  
 20 Lys Leu Gly Gly Tyr Gly Tyr Gly Ala Lys Ile Gly Gly Tyr Gly Tyr  
                   20                  25                  30  
 Gly Ala Lys Ser Gly Ile Gln Val Arg Ala Leu Gly Gly Tyr Gly Ala  
           35                  40                  45  
 25 Gly Ala  
       50  
 30  
     <210> 10  
     <211> 199  
     <212> PRT  
     <213> R. appendiculatus  
 35  
     <400> 10  
 Ala Cys Gly Gly Ala Cys Thr Ala Gly Gly Thr Thr Thr Cys Gly Cys  
       1                  5                  10                  15  
 40 Thr Gly Gly Cys Gly Thr Cys Cys Cys Thr Cys Thr Thr Ala Thr Thr  
                   20                  25                  30  
 Gly Gly Cys Gly Gly Ala Thr Ala Cys Gly Gly Cys Thr Ala Cys Gly  
           35                  40                  45  
 45 Gly Thr Cys Cys Thr Thr Thr Cys Gly Thr Ala Gly Gly Ala Gly Cys  
           50                  55                  60  
 Cys Thr Thr Cys Gly Cys Gly Thr Ala Cys Gly Gly Cys Thr Thr Gly  
       65                  70                  75                  80  
 50 Thr Gly Gly Gly Gly Thr Gly Gly Cys Cys Thr Cys Gly Gly Thr Gly  
                   85                  90                  95  
 Gly Cys Thr Ala Thr Gly Gly Cys Thr Ala Cys Cys Cys Thr Gly Cys  
           100                  105                  110  
 55 Cys Thr Thr Cys Gly Gly Ala Cys Thr Cys Thr Cys Cys Thr Gly Gly  
           115                  120                  125  
 60 Gly Thr Thr Cys Cys Ala Cys Ala Thr Gly Gly Thr Thr Thr Thr Gly  
           130                  135                  140

Gly Ala Gly Gly Cys Thr Thr Thr Gly Gly Ala Gly Cys Thr Thr Cys  
 145 150 155 160

5 Thr Cys Cys Gly Thr Cys Thr Gly Cys Thr Gly Cys Thr Gly Gly Thr  
 165 170 175

Thr Thr Cys Cys Gly Cys Thr Cys Gly Cys Thr Thr Thr Gly Gly Ala  
 180 185 190

10 Gly Cys Cys Thr Cys Thr Thr  
 195

15 <210> 11  
 <211> 148  
 <212> PRT  
 <213> R. appendiculatus

20 <400> 11  
 Met Lys Leu Leu Cys Ala Leu Ala Leu Val Ala Leu Gly Leu Pro Phe  
 1 5 10 15

25 Gly Ser Ala Tyr Leu Gly Gly Phe Gly Gly Leu Gly Gly Trp Gly Gly  
 20 25 30

Gly Leu Gly Ala Ile Phe Gly Pro Gly Ala Tyr Pro Gly Phe Tyr Gly  
 35 40 45

30 Leu Asn Ser Val His Leu Leu Gly Gly Arg Phe His His Leu Phe Gly  
 50 55 60

Arg Phe Pro Pro Pro Pro Gly Ile Gly Ala Ala Glu Ala Gln Gly Asn  
 65 70 75 80

35 Leu Ser Pro Tyr Pro Leu Asp Ile Asn Thr Val Gln Asp Pro Asn Trp  
 85 90 95

40 Pro Pro His Gly Thr Arg Cys Leu Arg Arg Ser Leu Ala Gly Ala Pro  
 100 105 110

Leu Thr Leu Thr Ser Pro Asn Ser Thr Gly Cys Ala Cys Pro Ser Pro  
 115 120 125

45 His Ser Ser Ala Pro Ala Ile Pro Ser Pro Thr Pro Thr Thr Ser Ser  
 130 135 140

Ile Pro Ser Ala  
 145

50 <210> 12  
 <211> 271  
 <212> DNA  
 <213> R. appendiculatus

<400> 12  
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 gccctcaagg gagcaatcaa ggttggtctt cttcagcaac aagcccaatc ccaagtccaa 120  
 60 ggagctctta agggagccgt caaggagacc ctccttcagc aacaacaggc atcacaggtc 180  
 aagggagccc tcaagggagc catcaaggtc tgtctccttc atcagcaagc ccaatcccaa 240

tcccaagttc agggagctct taaggagct g

271

<210> 13

<211> 431

5 <212> DNA

<213> R. appendiculatus

<400> 13

10 ggcttcggca gcccactcag cggtttcggc agcccactca gcggtttcgg cagcccactc 60  
 agcggcttcg gcagcccact cagcggattc ggtagccac tcagcggatt cggtagccca 120  
 ctcagcggat tcggtagccc attcggcagc tacggtcccc tgtccatggg tctcggagcc 180  
 cccaggagat tccccggcga cctccgcctc atctctgagc ccacctcccg ccttcccgtt 240  
 agcgatgccg tctacaccgc tgtcgtccag cccgtcacaa gcgcagtggg ccacaccgag 300  
 ggtccccatg tcaccggcca agtacaggaa cacgttgcaa tctaagcttt tctaaccgca 360  
 15 agctatatta cgacggatta gtcaacacag tcattttaag caaatgtatc taaaataaaa 420  
 tttatctgcc t 431

<210> 14

<211> 114

20 <212> PRT

<213> R. appendiculatus

<400> 14

25 Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe  
 1 5 10 15

Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser  
 20 25 30

30 Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Phe  
 35 40 45

Gly Ser Tyr Gly Pro Leu Ser Met Gly Leu Gly Ala Pro Arg Arg Phe  
 50 55 60

35 Pro Gly Asp Leu Arg Leu Ile Ser Glu Pro Thr Ser Arg Leu Pro Val  
 65 70 75 80

40 Ser Asp Ala Val Tyr Thr Ala Val Val Gln Pro Val Thr Ser Ala Val  
 85 90 95

Val His Thr Glu Gly Pro His Val Thr Gly Gln Val Gln Glu His Val  
 100 105 110

45 Ala Ile

<210> 15

50 <211> 656

<212> DNA

<213> R. appendiculatus

<400> 15

55 ggagatcacc tgcttgcaaa ggacaacgtc ctaacacagc cgcaaaatga aagcttttctt 60  
 cgttctttcc cttctttcaa ccgcccact gacgaatgca gcaagggctg gtcgtcttgg 120  
 aagcgacctg gatacatattg gaaggggtaca cggtaaccta tatgccggca tcgaaagagc 180  
 tggccctcgt ggatacccag ggcttaccgc atcgattgga ggccaagtgg gtgcacgact 240  
 cggtggctgt gccgggtgtg gagtgagcag ctacggctat ggttaccctt catgggggcta 300  
 60 tccgtatggt ggatacgggt gatacgggtg atacgggtga tacgggtgat atgatcaggg 360  
 ttttggtctt gcatacggcg gctaccccggt ctactatggc tactactatc ccagtgggcta 420

cgggtgggggc tacggtggta gctacggtgg cagctacggt ggtagctaca cctatcccaa 480  
 cgttcgggct tcagctgggt ccgcagcttg agcttctcct tcagcgtcac agtaagaaat 540  
 catggagcac ccgatcgaga aatacagagg ttctcaaaag cgtaggggat gcccaaccagc 600  
 aagaaattgc gccgcaaaat gttgagaaca aatacaagtt ttctgtaaaa aaaaaa 656

5

<210> 16  
 <211> 154  
 <212> PRT  
 <213> R. appendiculatus

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<400> 16  
 Met Lys Ala Phe Phe Val Leu Ser Leu Leu Ser Thr Ala Ala Leu Thr  
 1 5 10 15

15

Asn Ala Ala Arg Ala Gly Arg Leu Gly Ser Asp Leu Asp Thr Phe Gly  
 20 25 30

Arg Val His Gly Asn Leu Tyr Ala Gly Ile Glu Arg Ala Gly Pro Arg  
 35 40 45

20

Gly Tyr Pro Gly Leu Thr Ala Ser Ile Gly Gly Glu Val Gly Ala Arg  
 50 55 60

25

Leu Gly Gly Arg Ala Gly Val Gly Val Ser Ser Tyr Gly Tyr Gly Tyr  
 65 70 75 80

Pro Ser Trp Gly Tyr Pro Tyr Gly Gly Tyr Gly Gly Tyr Gly Gly Tyr  
 85 90 95

30

Gly Gly Tyr Gly Gly Tyr Asp Gln Gly Phe Gly Ser Ala Tyr Gly Gly  
 100 105 110

Tyr Pro Gly Tyr Tyr Gly Tyr Tyr Tyr Pro Ser Gly Tyr Gly Gly Gly  
 115 120 125

35

Tyr Gly Gly Ser Tyr Gly Gly Ser Tyr Gly Gly Ser Tyr Thr Tyr Pro  
 130 135 140

40

Asn Val Arg Ala Ser Ala Gly Ala Ala Ala  
 145 150

45

<210> 17  
 <211> 65  
 <212> PRT  
 <213> R. appendiculatus

50

<400> 17  
 Gly Leu Gly Phe Ala Gly Val Pro Leu Ile Gly Gly Tyr Gly Tyr Gly  
 1 5 10 15

Pro Phe Val Gly Ala Phe Ala Tyr Gly Leu Trp Gly Gly Leu Gly Gly  
 20 25 30

55

Tyr Gly Tyr Pro Ala Phe Gly Leu Ser Trp Val Pro His Gly Phe Gly  
 35 40 45

Gly Phe Gly Ala Ser Pro Ser Ala Ala Gly Phe Arg Ser Leu Trp Ser  
 50 55 60

60

Leu

65

5